

(19) World Intellectual Property Organization International Bureau



557532

(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/105069 A1

(51) International Patent Classification⁷: H01H 85/046, 85/042, 85/10

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(21) International Application Number:

PCT/PL2003/000092

(22) International Filing Date:

18 September 2003 (18.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

P-360332 26 May 2003 (26.05.2003) PL

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

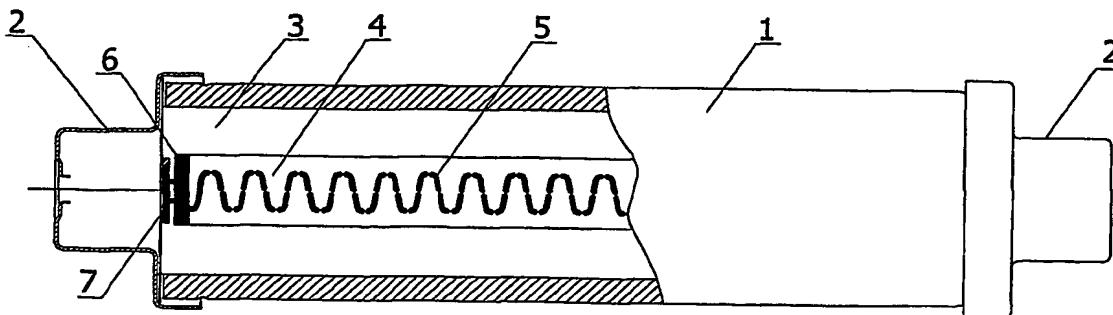
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A HIGH-VOLTAGE THICK-FILM HIGH RUPTURING CAPACITY SUBSTRATE FUSE



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(57) Abstract: The subject of the invention is a high-voltage thick-film high rupturing capacity substrate fuse. The characteristic feature of the inventive fuse is that inside a tubular insulating casing 1, which is closed at both ends with metal endocaps 2 and filled with arc quenching medium 3, there is located at least one insulating substrate 4, along which there is placed at least one fuse element 5 in the form of a thin conducting film and which has terminal areas 6 at its ends, which areas are electrically connected with the end-caps by specially shaped contacts 7 located inside the end-caps. The fuse element comprises a basic part formed by multiple identical V-shaped modules and two end modules forming electric connections between the basic part and the terminal areas. In each module, the arms of the V shape, of a specific width, end with arches directed outwards 8, which arches are connected with the arches of the arms of the neighboring modules by means of line segments, thus forming a line, which bends many times at a constant angle and has truncated vertices in each module, in which line at least one module contains at least one edge constriction 9, enabling opening of the current path when the fuse is overloaded.